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INFORMATION DISCLOSURE CITATION

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ATTY DOCKET NO.	SERIAL NO.
C35795/125	09/863,849
Jerome CANTOR, et al.	
FILING: May 23, 2001	GROUP: 1643

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MCH	1.	5,663,003	5/27/1998	Cantor			
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MCH	11.	5,679,657	10/21/1997	Oka, et al.			

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MCH	25.	0 216 453 B1 ✓	3/20/1996	Europe				✓
MCH	26.	WO 95/26735	10/12/1995	PCT				✓

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MCH	27.	Baba, Tooru, et al., "Ultrastructural Cytochemistry of Carbohydrates in Microfibrils Associated with the Amorphous Elastin in the Monkey Aorta" The Anatomical Record (1985) Vol. 213:385-391
MCH	28.	Baccarani-Contri, M., et al., "Elastin-Proteoglycans Association Revealed by Cytochemical Methods", Connective Tissue Research (1985) Vol. 13:237-249

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M.C.H		29.	Baccarani-Contri, M., et al., "Immunocytrochemical Localization of Proteoglycans Within Normal Elastin Fibers", European Journal of Cell Biology (1990) Vol. 53:305-312
M.C.H		30.	Cantor, J., et al. "Further Investigation of the Use of Intratracheally Administered Hyaluronic Acid to Ameliorate Elastase-Induced Emphysema", Experimental Lung Research (1997) Vol. 23:229-244

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	FILING May 23, 2001	GROUP 1623

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	Applicant(s) Jerome CANTOR, et al.	
	Filing Date May 23, 2001	Group Art Unit 1623

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	37.	Bray, B.A., et al., "Lung Hyaluronan as Assayed with a Biotinylated Hyaluronan-Binding Protein", Exper. Lung Res. (1994) 20:317-330
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INFORMATION DISCLOSURE CITATION

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Docket Number (Optional)	Application Number
C35795/12[redacted]	09/863,849
Applicant(s)	
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Filing Date	**Group Art Unit**
May 23, 2001	1623

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	Applicant(s) Jer me CANTOR, et al.	
	Filing Date May 23, 2001	Group Art Unit 1623

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Docket Number (Optional)	Application Number
C35795/125[redacted]	09/863,849
Applicant(s)	
Jerome CANTOR, et al.	
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May 23, 2001	1623

*EXAMINER INITIAL		OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*
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Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 55028/AKC	Serial No. 09/079,209
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Applicant Jerome O. Cantor	
	Filing Date May 14, 1998	Group Art Unit 1628

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

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MCS		Hyaluronan-Binding Protein". Exper. Lung Res., **20**:317-330, **(Exhibit 1)**.
MCS		Cantor, J.O. et al., (1995) "Modulation of Airspace Enlargement in Elastase-Induced
		Emphysema by Intratracheal Instillment of Hyaluronidase and Hyaluronic Acid".
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	02/24/99 7/21/03

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Form PTO-1449 (Substituted) (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No. 55028/AKC	U.S. Serial No. 09/074,309
		Applicant Jerome O. Cantor	
	INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Filing Date May 14, 1998	Group Art Unit 1623

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	Rao, N.V. et al., (1990) "Sulfated Polysaccharides Prevent Human Leukocyte Elastase-induced Acute Lung Injury and Emphysema in Hamsters" Am. Rev. Respir. Dis, **142**:407-412 **(Exhibit 4)**.
	Walsh, R.L. et al., (1991) "Heparin and Heparan Sulphate are Inhibitors of Human Leucocyte Elastase", Clin. Sci., **81**:341-346 **(Exhibit 5)**.

EXAMINER	DATE CONSIDERED 02/24/99 7/21/03

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Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 55028	Serial No. 09/079,209
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Applicant Jerome O. Cantor	
	Filing Date May 14, 1998	Group 1623

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MCH	Abstract by Ishibashi M., et al. (December 1995) "The role of interstitial hyaluronan in acute lung injury" 33 (Suppl):225-230 (Exhibit 2);
MCH	An English translation of Ishibashi, M., et al. (1995) "The Role of Interstitial Hyaluronan in Acute Lung Injury" Japanese Journal of Thoracic Disease 33(Suppl):225-230 (Exhibit 3);

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Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 55028/AKC	Serial No. 09/079,209
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Applicant Jerome O. Cantor	
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AC-H	Erlinger, Rainer, "Glycosaminoglycans in Porcine Lung: An Ultrastructural Study Using Cupromeronic Blue" Cell Tissue Research (1995) Vol. **281**:473-483 (Exhibit 6).

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Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 55028/AKC	Serial No. 09/079,209
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Applicant Jerome O. Cantor	
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M.C.H.

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	Filing Date: May 14, 1998	Group: 1623

OIPE JAN 28 2002 PATENT & TRADEMARK OFFICE

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M.O.C.

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M.O.C.

Abstract by Murakami, H., et al. (July 1998) "Effect of hyaluronidase on porcine pancreatic elastase-induced lung injury" 36(7):577-584 (Exhibit 5).

EXAMINER	DATE CONSIDERED
James O. Hutchins	11/15/99 7/21/07

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Docket Number (Optional)	Application Number
C35795/210[redacted]	09/079,209
Applicant(s)	
J. CANTOR	
Filing Date	**Group Art Unit**
May 14, 1998	1623

OIPE JC147 JAN 28 2002 PATENT & TRADEMARK OFFICE
NOV 13 2000 PATENT & TRADEMARK OFFICE JC147
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MCH	1	5,872,109	2/16/1999	Akima, et al.			
	2	5,990,096	11/23/1999	Asculai, et al.			
	3	5,993,783	11/30/1999	Eljamal, et al.			
	4	5,929,048	7/27/1999	Falk, et al.			
	5	5,707,604	1/13/1998	Ranney			
	6	5,767,106	6/16/1998	Turley, et al.			
	7	4,925,678	5/15/1990	Ranney			
MCH	8	4,725,585	2/16/1988	Wenge, et al.			

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MCH	9	WO 95/26735	10/12/1995	PCT				

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MCH	10	Cantor, J., et al., "Synthesis of Crosslinked Elastin by a Mesothelial Cell Culture", Proceedings of the Society for Experimental Biology and Medicine, vol. 181, pp. 387-391 (1986)
MCH	11	Lafuma, C., et al., "Biosynthesis of Hyaluronic Acid, Heparan Sulfate and Structural Glycoproteins in Hamster Lung Explants during Elastase Induced Emphysema", Connective Tissue Research, vol. 13, pp. 169-179 (1985)

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Docket Number (Optional)	Application Number
C35795/21[redacted]	09/079,209
Applicant(s) J. CANTOR	
Filing Date May 14, 1998	**Group Art Unit** 1623

U.S. PATENT DOCUMENTS

OIPE JC41 JAN 28 2002 PATENT & TRADEMARK OFFICE

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M.C.H	12	Osman, M., et al., "Cigarette Smoke Impairs Elastin Resynthesis in Lungs of Hamsters with Elastase-induced Emphysema", Am. Rev. Respir. Dis., vol. 132, pp. 640-643 (1985)
M.C.T	13	Campbell, E., et al., "Relative Importance of Cell-Substrate Contact and Oxidative Inactivation of Proteinase Inhibitors in Vitro", J. Clin. Invest., vol. 70, pp. 845-852 (1982)

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Applicant(s)	
J. CANTOR	
Filing Date	**Group Art Unit**
May 14, 1998	1623

U.S. PATENT DOCUMENTS

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MCH	15	Chrzanowski, P., et al., "Elastin Content of Normal and Emphysematous Lung Parenchyma", The American Journal of Medicine, vol. 69, pp. 351-359 (9/1980)

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Applicant(s)	
J. CANTOR	
Filing Date	**Group Art Unit**
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U.S. PATENT DOCUMENTS

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KAO 2/14	16	Moczar, M., et al., "Glycosaminoglycans in Elastase Induced Emphysema", Bull. europ. Physiopath. resp., vol. 16 (suppl), pp. 99-104 (1980)
KAO 2/14	17	de Belder, A., et al., "Preparation and Properties of Fluorescein-Labelled Hyaluronate", Carbohydrate Research, vol. 44, pp. 251-257 (1975)

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Docket Number (Optional)	Application Number
C35795/210-	09/[illegible]9,209
Applicant(s)	
J. CANTOR	
Filing Date	**Group Art Unit**
May 14, 1998	1623

U.S. PATENT DOCUMENTS

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MC/tl	18	Motomiya, M., et al., "Über Glykosaminoglykane bei einem Fall von Lungenempyhsem", Z. Erkr. Atm., vol. 143, pp. 270-276 (1975)
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M-9-11	20	Bhattacharya, J., et al., "Hyaluronan affects extravascular water in lungs of unanesthetized rabbits", J. Appl. Physiol., vol. 66, pp. 2595-2598 (1989)
M-9-11	21	Zimmerman, M., et al., "Design and Properties of Synthetic Elastase Inhibitors", Elastin and Elastases, volume II, chapter 12, pp. 109-123

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Applicant(s)	
J. CANTOR	
Filing Date	**Group Art Unit**
May 14, 1998	1623

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Docket Number (Optional)	Application Number
35795/210	09/079,269
Applicant(s)	
J. CANTOR	
Filing Date	**Group Art Unit**
May 14, 1998	1623

OIPE JC41 JAN 28 2002 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS

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MG-11	24	Pare, P., et al., "The functional consequences of airway remodelling in asthma", Damage and Remodelling in Airway Inflammation", vol. 52, no. 6, pp. 589-596 (1997)
MG-11	25	Rosenbaum, D., "Hyaluronan in Radiation-Induced Lung Disease in the Rat", Radiation Research, vol. 147, pp. 585-591 (1997)

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OIPE JC147 NOV 13 2000 PATENT & TRADEMARK OFFICE

Docket Number (Optional)	Application Number
35795/210	09/079,209
Applicant(s) J. CANTOR	
Filing Date May 14, 1998	**Group Art Unit** 1623

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MOH	26	Akima, K., et al., "Evaluation of Antitumor Activities of Hyaluronate Binding Antitumor Drugs: Synthesis, Characterization and Antitumor Activity", Journal of Drug Targeting, vol. 4, pp. 1-8 (1996)
MOH	27	Pruimboom, I., et al., "Capsular Hyaluronic Acid-mediated Adhesion of Pasteurella multocida to Turkey Air Sac Macrophages", Avian Diseases, vol. 40, pp. 887-893 (1996)

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35795/210	09/079,209
Applicant(s) J. CANTOR	
Filing Date May 14, 1998	**Group Art Unit** 1623

U.S. PATENT DOCUMENTS

OIPE JC41 JAN 28 2002 PATENT & TRADEMARK OFFICE

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OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

MSH SM	28	Sköld, C., et al., "Transient increases in albumin and hyaluronan in bronchoalveolar lavage fluid after quitting smoking: possible signs of reparative mechanisms", Respiratory Medicine, vol. 90, pp. 523-529 (1996)
MSH SM	29	Juul, S., et al., "Hyperoxia Alone Causes Changes in Lung Proteoglycans and Hyaluronan in Neonatal Rat Pups", American Journal of Respiratory Cell and Molecular Biology, vol. 13, pp. 629-638 (1995)

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James O. Thomas	2/20/01 7/21/03

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Docket Number (Optional)	Application Number
5795/2104	09/079,209
Applicant(s)	
J. CANTOR	
Filing Date	**Group Art Unit**
May 14, 1998	1623

U.S. PATENT DOCUMENTS

OIPE JAN 28 2002 PATENT & TRADEMARK OFFICE

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FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO

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EXAMINER	DATE CONSIDERED
Samuel D. Walker	02/20/01 7/24/03

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5795/210	09/079,209
Applicant(s)	
J. CANTOR	
Filing Date	**Group Art Unit**
May 14, 1998	1623

U.S. PATENT DOCUMENTS

OIPE JC41 JAN 28 2002 PATENT & TRADEMARK OFFICE

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MGH	32	Aviad, A., et al., "The Molecular Weight of Therapeutic Hyaluronan (Sodium Hyaluronate): How Significant is it?", The Journal of Theumatology, vol. 21, pp. 297-301 (1994)
MGH	33	Gandhi, R., et al., "Analysis of elastin cross-linking and the connective tissue matrix of abdominal aortic aneurysms", Surgery, vol. 115, pp. 617-620 (5/1994)

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OIPE JAN 28 2002 41
OIPE JC147 NOV 13 2000 PATENT & TRADEMARK OFFICE

Docket Number (Optional)	Application Number
5795/2104	09/079,209
Applicant(s) J. CANTOR	
Filing Date May 14, 1998	**Group Art Unit** 1623

U.S. PATENT DOCUMENTS

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MOH	34	Juul, S., et al., "Changes in Hyaluronan Deposition during Early Respiratory Distress Syndrome in Premature Monkeys", Pediatric Research, vol. 35, no. 2, pp. 238-243 (1994)
MOH	35	Townsley, M., et al., "Hyaluronan Efflux from Canine Lung with Increased Hydrostatic Pressure and Saline Loading", American Journal of Respiratory and Critical Care Medicine, vol. 150, pp. 1605-1611 (1994)

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5795/210	09/079,209
Applicant(s) J. CANTOR	
Filing Date May 14, 1998	**Group Art Unit** 1623

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OIPE JC41 JAN 28 2002 PATENT & TRADEMARK OFFICE

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	36	Goldberg, E., et al., "Prevention of Postoperative Adhesions by Precoating Tissues with Dilute Sodium Hyaluronate Solutions", Prog. Clin. Biol. Res., vol. 381, pp. 191-204 (1993)
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5795/2104	09/079,209
Applicant(s) J. CANTOR	
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U.S. PATENT DOCUMENTS

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JAN 28 2002
PATENT & TRADEMARK OFFICE

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Applicant(s) J. CANTOR	
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U.S. PATENT DOCUMENTS

OIPE JC14
JAN 28 2002
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AA 5+1	40	Cantor, J., et al., "The Effect of 60% Oxygen on Air-space Enlargement and Cross-linked Elastin Synthesis in Hamsters with Elastase-induced Emphysema", Am. Rev. Respir. Dis., vol. 142, pp. 668-673 (1990)
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MC41	42	Tyrrell, D., et al., "Heparin in Inflammation: Potential Therapeutic Applications beyond Anticoagulation", "Adv. Pharmacol., vol. 46, pp. 151-208 (1999)
MC41	43	Feng, W., et al., "Improved Clearability of Cystic Fibrosis Sputum with Dextran Treatment in vitro", Am. J. Respir. Crit. Care Med., vol. 157, pp. 710-714 (1998)

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	44	Barnes, P., et al., "Inflammatory Mediators of Asthma: An Update", Pharmacological Reviews, vol. 50, no. 4, pp. 515-596 (1998)
	45	Cantor, J., Abstract for "Intratracheal Instillment of Hyaluronic Acid Decreases Elastase-Induced Air-Space Enlargement in Hamsters", Exper. Lung Res., vol. 19, pp. 177-192 (1993)

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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO

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MCH	46	Zhou, D., et al., (article in Chinese) "The changes in collagen contents and its clinical significance in chronic obstructive pulmonary disease", Chung Hua Chieh Ho Ho Hu His Tsa Chih, vol. 18, no. 5, pp. 301-2, 319 (10/1995)

EXAMINER	DATE CONSIDERED
	02/20/21 7/21/07

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ATTY DOCKET NO.	SERIAL NO.
C35795/1[redacted]7	09/863,849
Jerome CANTOR, et al.	
FILING: May 23, 2001	GROUP: 1623

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M.C.H		4,496,689	1/1985	Mitra			
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M.C.H			International Search Report, dated January 10, 2001
M.C.H			Patent Abstracts of Japan, publication no. 11147901, published February 6, 1997

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[signature]	7/21/03

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INFORMATION DISCLOSURE CITATION *(Use several sheets if necessary)*	ATTY DOCKET NO. C35795/[redacted]237	SERIAL NO. 09/863,849
	Jerome CANTOR, et al.	
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